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1 Profile-based optimizations: Reality-based optimization Scott McFarling March 2003 Proceedings of the international symposium on Code generation and runtime optimization Full text available: pdf(1.09 MB) Publisher Site Profile-based optimization has been studied extensively. Numerous papers and improvements. However, most of these papers have been limited to either braperformance. Also, most of these papers have looked at small applications wit training scenarios. In this paper, we look at real use of large real-world deskto													
consumption and disk performance are the primar 2 Systematic Power-Performance Trade-Off in MPEG-4 by Means of Selective													
Address Optimization Opportunities M. Palkovic, M. Miranda, F. Catthoor													
March 2002 Proceedings of the conference on Design, automation as											and test in		
The hierarchical structure of real-life data dominatedapplications limits the ex optimisations. This limitation is often overcome by func-tioninlining. However, which causes a significant growth of instruction cachemisses and thus perform confirmed on experiments with our applications. We have developed a novel r inlining steered by cost/gain balance to trade-off													

³ Near-optimal intraprocedural branch alignment

Cliff Young, David S. Johnson, Michael D. Smith, David R. Karger

May 1997 ACM SIGPLAN Notices, Proceedings of the ACM SIGPLAN 1997 conferent
and implementation, Volume 32 Issue 5

Full text available: pdf(1.56 MB)

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Branch alignment reorders the basic blocks of a program to minimize pipeline instructions. Prior work in branch alignment has produced useful heuristic met algorithm that usually achieves the minimum possible pipeline penalty and or of a provable optimum. We compare the control penalties and running times capproach and observe that both the greedy method an ...

4 Temperature-aware microarchitecture: Modeling and implementation Kevin Skadron, Mircea R. Stan, Karthik Sankaranarayanan, Wei Huang, Sivakun March 2004 ACM Transactions on Architecture and Code Optimization (TACO),

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With cooling costs rising exponentially, designing cooling solutions for worst-c expensive. Chips that can autonomously modify their execution and power-dis of lower-cost cooling solutions while still guaranteeing safe temperature regul dynamic thermal management (DTM), however, requires a thermal model tha studies. This paper describes *HotSpo* ...

Keywords: Dynamic compact thermal models, dynamic thermal management, control, fetch gating

TRIPS: A polymorphous architecture for exploiting ILP, TLP, and DLP Karthikeyan Sankaralingam, Ramadass Nagarajan, Haiming Liu, Changkyu Kim, Burger, Stephen W. Keckler, Robert G. McDonald, Charles R. Moore March 2004 ACM Transactions on Architecture and Code Optimization (TACO), Full text available: Additional Information: full citation, abstract, references

This paper describes the *polymorphous* TRIPS architecture that can be configu of parallelism. The TRIPS architecture is the first in a class of post-RISC, data data-graph execution (EDGE). This EDGE ISA is coupled with hardware mecha and the on-chip memory system to be configured and combined in different m thread-level parallelism. To adapt ...

Keywords: Computer architecture, configurable computing, scalable and high-

Papers: The lookahead strategy for distance-based location tracking in wire I-Fei Tsai, Rong-Hong Jan

October 1999 ACM SIGMOBILE Mobile Computing and Communications Review, Full text available: pdf(1.27 M8) Additional Information: full citation, abstract, referen

Based on a multi-scale, straight-oriented mobility model, this paper presents location tracking so the rate of location update can be reduced without incurri linear mobility graphs, the optimal registered cell is found by an iterative algo maximized. For planar mobility graphs, the authors employ the results from li registered cell. Performance gain i ...

7 Aggressive inlining

Andrew Ayers, Richard Schooler, Robert Gottlieb

May 1997 ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1997 conference and implementation, Volume 32 Issue 5

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Existing research understates the benefits that can be obtained from inlining a profile information. Our implementation of inlining and cloning yields excellen lowers performance. We believe our good results can be explained by a numbintermediate-code level removes most technical restrictions on what can be in and incorporate profile information enables ...

8 Datapath and control for quantum wires

Nemanja Isailovic, Mark Whitney, Yatish Patel, John Kubiatowicz, Dean Copsey, Mark Oskin

March 2004 ACM Transactions on Architecture and Code Optimization (TACO),
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As quantum computing moves closer to reality the need for basic architectura Quantum wires, which transport quantum data, will be a fundamental compon architectures. Since they cannot consist of a stream of electrons, as in the cla fundamentally be designed differently. In this paper, we present two quantum swapping of adjacent qubits, and a teleportation wire, ...

Keywords: Architecture, Control, Layout

9 Software profiling for hot path prediction: less is more

Evelyn Duesterwald, Vasanth Bala

November 2000 Proceedings of the ninth international conference on Architectural operating systems, Volume 34, 28 Issue 5, 5

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Recently, there has been a growing interest in exploiting profile information ir compilers, dynamic optimizers and, binary translators. In this paper, we show schemes that provide highly accurate information in an offline setting are ill-s systems. We experimentally demonstrate that hot path predictions must be m cost of missed opportunity tha ...

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Hsu-Wei Huang, Cheng-Yeh Wang, Jing-Yang Jou

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In this paper, a novel strategy for designing the heterogeneous-tree multiplex delay model by curve fitting and then formulate the heterogeneous-tree multi of optimization problem called mixed-integer nonlinear programming (MINLP) size in each stage, is introduced to improve the speed of the heterogeneous-treat can determine the multiplexer architec ...

11 Future technologies: Timing, energy, and thermal performance of three-din Shamik Das, Anantha Chandrakasan, Rafael Reif

April 2004

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Keywords: 3-D IC, 3-D integration, energy, thermal optimization, timing

¹² GADGET: a toolkit for optimization-based approaches to interface and disp James Fogarty, Scott E. Hudson

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Recent work is beginning to reveal the potential of numerical optimization as and displays. Optimization-based approaches can often allow a mix of indeper blended in ways that would be difficult to describe algorithmically. While optir offer several potential advantages, further research in this area is hampered to paper presents GADGET, an experimental toolk ...

Keywords: display generation, layout algorithms, numerical optimization, perc

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The overwhelming success of the Web as a mechanism for facilitating informa business transactions has ledto an increase in the deployment of complex entrypically run on Web Application Servers, which assume the burden of managi memory management, database access, etc., required by these applications. Server depends heavily on appropriate configuration. Co ...

Keywords: automatic tuning, gradient method, importance sampling, simulate

14 Extending Path Profiling across Loop Backedges and Procedure Boundarie Sriraman Tallam, Xiangyu Zhang, Rajiv Gupta

March 2004 Proceedings of the international symposium on Code generation and runtime optimization

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Since their introduction, path profiles have been used toguide the application and performing instruction scheduling. However, for optimization and schedulin frequency counts of paths that extend across loop iterations and crossprocedur referred to asinteresting paths in this paper, account for over 75% of theflow Although the frequency counts of interesting paths can b ...

Keywords: path profiles, overlapping path profiles, profileguided optimization,

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Keywords: analytical placement, net models, standard cell placement

¹⁶ Advances in embedded software scheduling techniques: Pareto-optimization embedded systems

Peng Yang, Francky Catthoor

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Pareto-set-based optimization can be found in several different areas of embe task scheduling, where different task mapping and ordering choices for a targe performance/cost tradeoffs. To explore this design space at run-time, a fast as have modeled the problem as the well known Multiple Choice Knapsack Proble greedy heuristic for the run-time task scheduling. To ...

Keywords: Pareto optimization, embedded system, low-power, scheduling

17 Code scheduling: Phi-Predication for light-weight if-conversion

Weihaw Chuang, Brad Calder, Jeanne Ferrante

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¹⁸ A comparative study of static and profile-based heuristics for inlining Matthew Arnold, Stephen Fink, Vivek Sarkar, Peter F. Sweeney January 2000 ACM SIGPLAN Notices, Proceedings of the ACM SIGPLAN workshop and optimization, Volume 35 Issue 7

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In this paper, we present a comparative study of static and pro Our motivation for this study is to use the results to design the can for the Jalapeño dynamic optimizing compiler for Java [6]. approximation algorithm for the KNAPSACK problem as a comm " meta-algorithm" for the inlining heuristics studie performance results for an implementation of these inlinin ...

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E. Zumpano, S. Greco, I. Trubitsyna, P. Veltri

March 2004

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Keywords: datalog, deductive and logic databases, expressive power of query queries

²⁰ Positional adaptation of processors: application to energy reduction

Michael C. Huang, Jose Renau, Josep Torrellas

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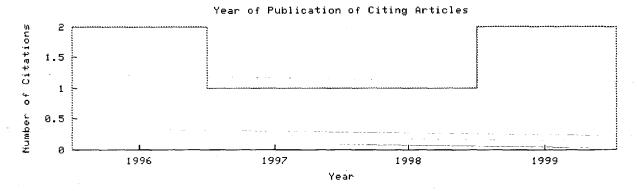
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